SYSTEM FOR CONTROLLING DRIVE OF FAN IN PORTABLE SYSTEM

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Abstract of **KR20030019742**

PURPOSE: A fan drive controlling system is provided to drive the fan in a portable system according to an implemented sequence though a microprocessor or a CPU is in an abnormal state. CONSTITUTION: The system comprises a CPU(10), a temperature sensor(12), a monitoring register(14), a configuration register(16), a comparator(18), a PWM(Pulse Width Modulation) logic module(20), and a fan driver(22). The CPU(10) stores a program controlling an overall operation of the portable system. The temperature sensor(12) senses the temperature caused by a heat of the CPU(10). The monitoring register(14) receives 4 bit or 8 bit signals from the temperature sensor(12) over a bus. The configuration register(16) stores differential reference data, for driving a fan, according to a level of the sensed CPU temperature. The comparator(18) compares the CPU temperature with the temperature level, stored at the configuration register(16), and outputs reference data corresponding to the sensed CPU temperature. The PWM logic module(20) converts the reference data into corresponding square waves, and the fan driver(22) drives the fan based on the square waves.

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